

*FIG.* 1

SYSTEM CONFIGURATION

115 OPERATOR CONSOLE APPLICATION

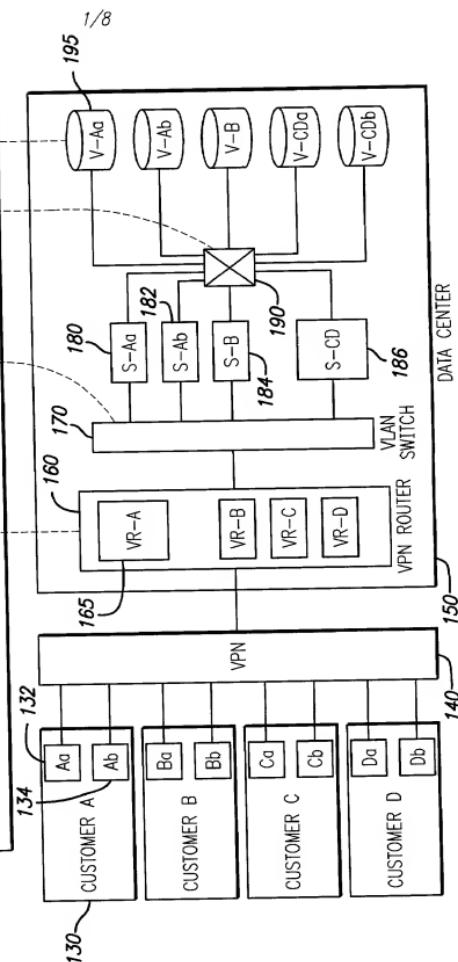
125 CUSTOMER PORTAL APPLICATION

300 INTEGRATED SERVICE MANAGEMENT SYSTEM

201 SERVER MANAGEMENT SYSTEM

210 VPN MANAGEMENT SYSTEM

202



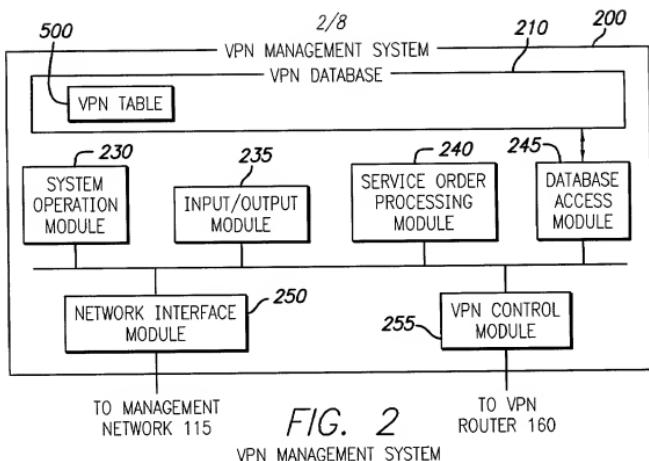


FIG. 2

VPN MANAGEMENT SYSTEM

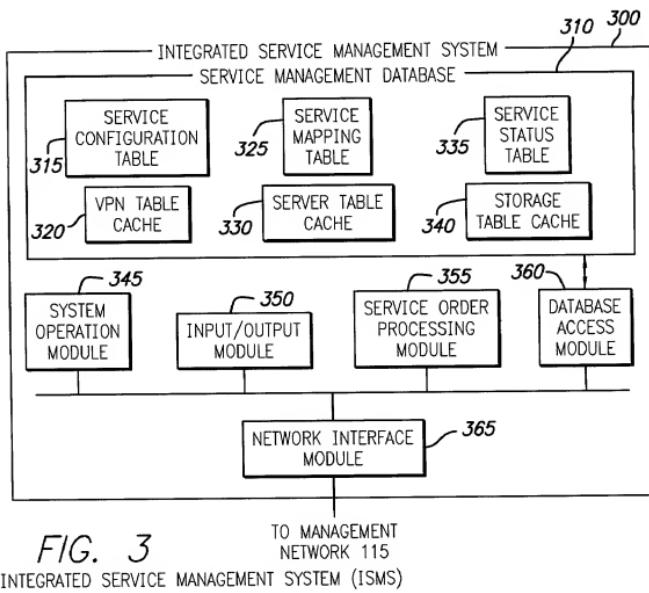


FIG. 3

INTEGRATED SERVICE MANAGEMENT SYSTEM (ISMS)

3/8

400

Subsystem name	Address
VPN subsystem	192.168.1.11
Server subsystem	192.168.1.12
Storage subsystem	192.168.1.13

FIG. 4  
 SERVICE CONFIGURATION TABLE

500

VPN ID	Site	Address 1	Address 2	Protocol	Internet	VLAN ID
VR-A	Aa	IP(Aa)	IP(VR-A)	PP2P	YES	VID-A
	Ab	IP(Ab)	IP(VR-A)	PP2P	YES	
VR-B	Ba	IP(Ba)	IP(VR-B)	IPsec	YES	VID-B
	Bb	IP(Bb)	IP(VR-B)	IPsec	No	
VR-C	Ca	IP(Ca)	IP(VR-C)	L2TP	No	VID-C
	Cb	IP(Cb)	IP(VR-C)	L2TP	No	
VR-D	Da	IP(Da)	IP(VR-D)	IPsec	YES	VID-D
	Db	IP(Db)	IP(VR-D)	IPsec	YES	

FIG. 5  
 VPN TABLE

600

SERVER	Address	VLAN ID	Application	OS	CPU
S-Aa	IP(S-Aa)	VID-A	WWW	OS-1	1GHz
S-Ab	IP(S-Ab)		Email	OS-1	1GHz
S-B	IP(S-B)	VID-B	WWW/Email	OS-2	866MHz
S-CD	IP(S-CD)	VID-CD	Email/Calendar	OS-3	750MHz

FIG. 6  
 SERVER TABLE

Volume	Port	Server allowed	Capacity	Access
V-Aa	P(V-Aa)	S-Aa, S-Ab	100GB	Read only
V-Ab	P(V-Ab)	S-Aa, S-Ab	100GB	Read only
V-B	P(V-B)	S-B	50GB	Read only
V-CDa	P(V-CDa)	S-CD	30GB	Read/Write
V-CDb	P(V-CDb)	S-CD	30GB	Read only

FIG. 7  
STORAGE TABLE

Customer	VPN	Server	Volume
Customer A	VR-A	S-Aa, S-Ab	V-Aa, V-Ab
Customer B	VR-B	S-B	V-B
Customer C	VR-C	S-CD	V-CDa, V-CDb
Customer D	VR-D	S-CD	V-CDa, V-CDb

FIG. 8  
SERVICE MAPPING TABLE

Customer	VPN	Server	Volume
Customer A	Normal	Normal	Normal
Customer B	Normal	Normal	Normal
Customer C	Normal	Normal	Fault
Customer D	Normal	Normal	Normal

FIG. 9  
SERVICE STATUS TABLE

FIG. 10

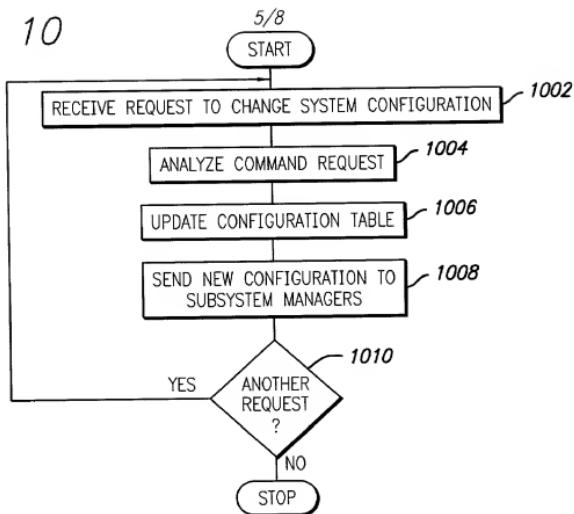


FIG. 11

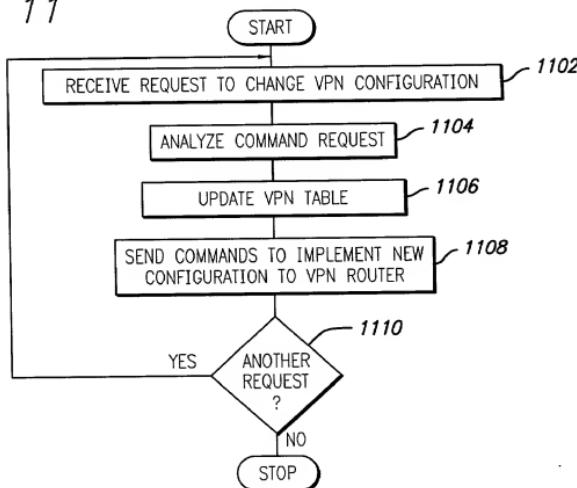


FIG. 12

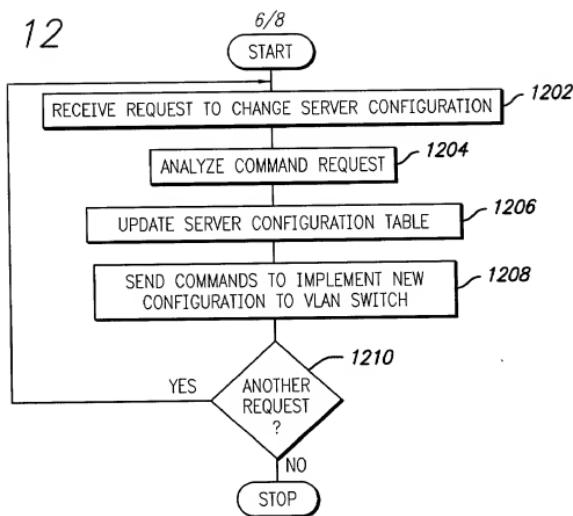
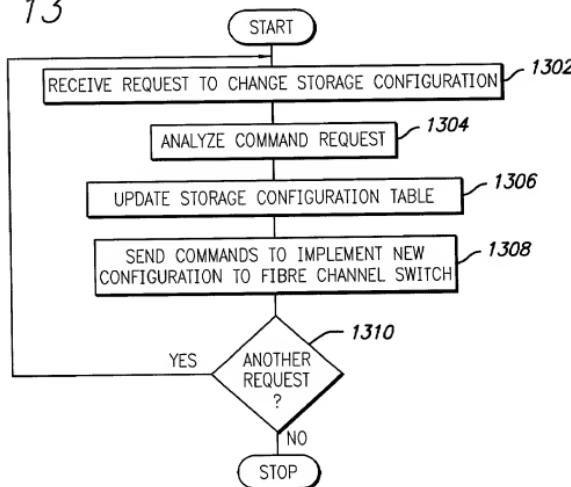


FIG. 13

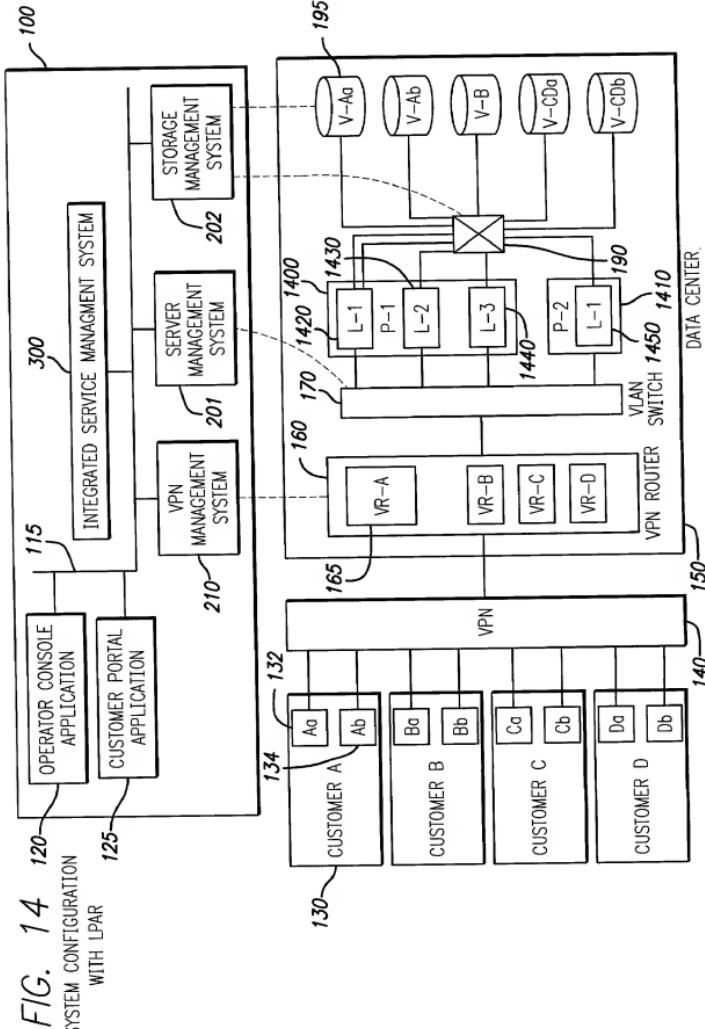


Integrated Service Management System

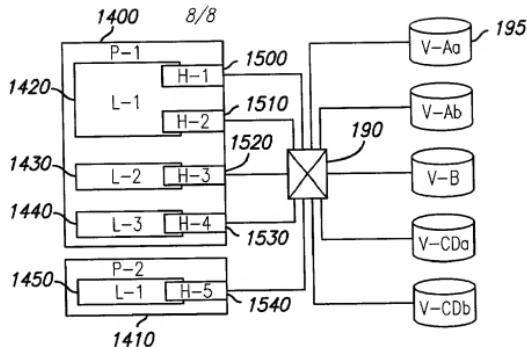
【Inventor】 Takeshi Iizuka  
【Attorney】 Docket No. 36992-00083

FIG. 14

SYSTEM CONFIGURATION WITH LPAR  
120  
125



*FIG. 15*  
 LPAR AND HBA



Server	Address	Physical Server	VLAN ID	LPAR ID	HBA ID	Application	OS	CPU
S-Aa	IP(S-Aa)	P-1	VID-A	L-1	H-1 H-2	WWW	OS-1	1GHz
S-Ab	IP(S-Ab)			L-2	H-3	Email	OS-1	1GHz
S-B	IP(S-B)		VID-B	L-3	H-4	WWW/Email	OS-2	866MHz
S-CD	IP(S-CD)	P-2		VID-CD	L-1	H-5	OS-3	750MHz
						Email/Calendar	OS-3	750MHz
						Email/Calendar	OS-1	750MHz

*FIG. 16*  
 SERVER TABLE WITH LPAR

Volume	Port	HBA allowed	Capacity	Access
V-Aa	P(V-Aa)	H-1, H-2, H-3	100GB	Read only
V-Ab	P(V-Ab)	H-1, H-2, H-3	100GB	Read only
V-B	P(V-B)	H-4	50GB	Read only
V-CDa	P(V-CDa)	H-5	30GB	Read/Write
V-CDb	P(V-CDb)	H-5	30GB	Read only

*FIG. 17*  
 STORAGE TABLE WITH HBA IDENTIFICATION